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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,054	08/30/2001	Seiichi Araki	109536-161	8743

23483 7590 09/04/2002

HALE AND DORR, LLP  
60 STATE STREET  
BOSTON, MA 02109

EXAMINER

WEDDINGTON, KEVIN E

ART UNIT	PAPER NUMBER
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1614

DATE MAILED: 09/04/2002

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Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.  
**09/943,054**

Applicant(s)  
**Araki et al.**

Examiner  
**Kevin E. Weddingt n**

Art Unit  
**1614**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on Aug 30, 2001
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6-8 is/are allowed.
- 6) ☒ Claim(s) 1-5, 9-14, 18-24, 28-34, 38-43, and 47-54 is/are rejected.
- 7) ☒ Claim(s) 15-17, 25-27, 35-37, and 44-46 is/are objected to.
- 8) ☐ Claims \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☒ Certified copies of the priority documents have been received in Application No. 08/204,333.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\*See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s). \_\_\_\_\_ 6) ☐ Other:

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CLAIMS 1-54 ARE PRESENTED FOR EXAMINATION.

THE PRELIMINARY AMENDMENT FILED AUGUST 30, 2001 HAS BEEN RECEIVED AND ENTERED, HOWEVER, THE AMENDMENT DOES NOT COMPLY WITH 37 CFR 1.173(B) AS ALL ADDED CLAIMS MUST BE ENTIRELY UNDERLINED.

***REISSUE APPLICATIONS***

THIS REISSUE APPLICATION WAS FILED WITHOUT THE REQUIRED OFFER TO SURRENDER THE ORIGINAL PATENT OR, IF THE ORIGINAL IS LOST OR INACCESSIBLE, AN AFFIDAVIT OR DECLARATION TO THAT EFFECT. THE ORIGINAL PATENT, OR AN AFFIDAVIT OR DECLARATION AS TO LOSS OR INACCESSIBILITY OF THE ORIGINAL PATENT, MUST BE RECEIVED BEFORE THIS REISSUE APPLICATION CAN BE ALLOWED. SEE 37 CFR 1.178.

***ALLOWABLE SUBJECT MATTER***

CLAIMS 6-8 ARE ALLOWABLE.

***CLAIM OBJECTIONS***

CLAIMS 15-17, 25-27, 35-37 AND 44-46 ARE OBJECTED TO

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***DOUBLE PATENTING***

A REJECTION BASED ON DOUBLE PATENTING OF THE "SAME INVENTION" TYPE FINDS ITS SUPPORT IN THE LANGUAGE OF 35 U.S.C. 101 WHICH STATES THAT "WHOEVER INVENTS OR DISCOVERS ANY NEW AND USEFUL PROCESS ... MAY OBTAIN A PATENT THEREFOR ..." (EMPHASIS ADDED). THUS, THE TERM "SAME INVENTION," IN THIS CONTEXT, MEANS AN INVENTION DRAWN TO IDENTICAL SUBJECT MATTER. SEE *MILLER V. EAGLE MFG. Co.*, 151 U.S. 186 (1894); *IN RE OCKERT*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); AND *IN RE VOGEL*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A STATUTORY TYPE (35 U.S.C. 101) DOUBLE PATENTING REJECTION CAN BE OVERCOME BY CANCELING OR AMENDING THE CONFLICTING CLAIMS SO THEY ARE NO LONGER COEXTENSIVE IN SCOPE. THE FILING OF A TERMINAL DISCLAIMER CANNOT OVERCOME A DOUBLE PATENTING REJECTION BASED UPON 35 U.S.C. 101.

CLAIMS 11, 21, 31 AND 48-54 REJECTED UNDER 35 U.S.C. 101 AS CLAIMING THE SAME INVENTION AS THAT OF CLAIMS 1 AND 2 OF PRIOR U.S. PATENT No. 5,814,632.

THE PRESENT APPLICATION TEACHES A METHOD FOR TREATING A PATIENT WITH SEPSIS WITH RIBOFLAVIN AND/OR RIBOFLAVIN DERIVATIVES, AND THE PATENTED APPLICATION TEACHES A METHOD FOR THE TREATMENT OF DISEASE SELECTED FROM THE GROUP CONSISTING OF: WHICH INCLUDES SEPSIS WITH RIBOFLAVIN AND/OR A RIBOFLAVIN

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DERIVATIVE TOO. ALSO NOTE THE PATENTED APPLICATION DOSAGE RANGE FOR THE ACTIVE INGREDIENTS IS 0.5-500 MG/KG AND THE PRESENT APPLICATION RANGE OF 0.1 TO 500 MG/KG IS TOTALLY ENCOMPASSED BY THE RANGE OF THE PATENTED APPLICATION.

THIS IS A DOUBLE PATENTING REJECTION.

***CLAIM REJECTIONS - 35 U.S.C. § 103***

THE FOLLOWING IS A QUOTATION OF 35 U.S.C. 103(A) WHICH FORMS THE BASIS FOR ALL OBVIOUSNESS REJECTIONS SET FORTH IN THIS OFFICE ACTION:

(A) A PATENT MAY NOT BE OBTAINED THOUGH THE INVENTION IS NOT IDENTICALLY DISCLOSED OR DESCRIBED AS SET FORTH IN SECTION 102 OF THIS TITLE, IF THE DIFFERENCES BETWEEN THE SUBJECT MATTER SOUGHT TO BE PATENTED AND THE PRIOR ART ARE SUCH THAT THE SUBJECT MATTER AS A WHOLE WOULD HAVE BEEN OBVIOUS AT THE TIME THE INVENTION WAS MADE TO A PERSON HAVING ORDINARY SKILL IN THE ART TO WHICH SAID SUBJECT MATTER PERTAINS. PATENTABILITY SHALL NOT BE NEGATIVED BY THE MANNER IN WHICH THE INVENTION WAS MADE.

THIS APPLICATION CURRENTLY NAMES JOINT INVENTORS. IN CONSIDERING PATENTABILITY OF THE CLAIMS UNDER 35 U.S.C. 103(A), THE EXAMINER PRESUMES THAT THE SUBJECT MATTER OF THE VARIOUS CLAIMS WAS COMMONLY OWNED AT THE TIME ANY INVENTIONS COVERED THEREIN WERE MADE ABSENT ANY EVIDENCE TO THE CONTRARY. APPLICANT IS ADVISED OF THE OBLIGATION UNDER 37 CFR 1.56 TO POINT OUT THE INVENTOR AND INVENTION DATES OF EACH CLAIM THAT WAS NOT COMMONLY OWNED AT THE TIME A LATER INVENTION WAS MADE IN ORDER FOR THE EXAMINER TO CONSIDER THE APPLICABILITY OF 35 U.S.C. 103© AND POTENTIAL 35 U.S.C. 102(E), (F) OR (G) PRIOR ART UNDER 35 U.S.C. 103(A).

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CLAIMS 1-5, 9-14, 18-24, 28-34, 38-43 AND 47-54 ARE REJECTED UNDER 35 U.S.C. 103(A) AS BEING UNPATENTABLE OVER SALANTIANTS (B) AND BOUNOUS ET AL. (A) IN VIEW OF WINDHOLZ ET AL. (R).

SALANTIANTS AND BOUNOUS ET AL. TEACH THE USE OF RIBOFLAVIN OR VITAMIN B2, AS HAVING IMMUNE-ENHANCING ACTIVITY TO TREAT INFECTIOUS AND VIRAL DISEASES.

THE INSTANT INVENTION DIFFERS FROM THE CITED REFERENCE IN THAT THE CITED REFERENCE DOES NOT TEACH THE ADDITION OF AN ANTIBIOTIC WITH RIBOFLAVIN SET FORTH IN APPLICANTS' CLAIMS 18 AND 38. HOWEVER, THE SECONDARY REFERENCE, WINDHOLZ ET AL. TEACH AMOXICILLIN AS AN EFFECTIVE ANTIBIOTIC TO TREAT INFECTIONS OR INFECTIOUS DISEASES. THUS THE COMBINATION OF TWO INDIVIDUAL ANTIINFECTIONS DRUGS TOGETHER WOULD OBVIOUSLY GIVE AN ADDITIVE EFFECT IN THE ABSENCE OF EVIDENCE TO THE CONTRARY.

THE INSTANT INVENTION DIFFERS FROM THE CITED REFERENCES IN THAT THE CITED REFERENCES DO NOT TEACH THE APPLICANTS' SPECIFIC RANGE OF DOSAGES AS DISCLOSED IN CLAIMS 4, 13, 23, 33, 42, 50 AND 53. HOWEVER, THE DETERMINATION OF A DOSAGE HAVING OPTIMUM THERAPEUTIC INDEX IS WELL WITHIN THE LEVEL OF ONE HAVING ORDINARY SKILL IN THE ART, AND THE SKILLED ARTISAN WOULD HAVE BEEN MOTIVATED TO DETERMINE OPTIMUM AMOUNTS TO GET THE MAXIMUM EFFECT OF THE INSTANT COMPOSITION.


CLAIMS 1-5, 9-14, 18-24, 28-34, 38-43 AND 47-54 ARE NOT ALLOWED.

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ANY INQUIRY CONCERNING THIS COMMUNICATION OR EARLIER COMMUNICATIONS  
FROM THE EXAMINER SHOULD BE DIRECTED TO EXAMINER K. WEDDINGTON WHOSE  
TELEPHONE NUMBER IS (703) 308-1235.

  
Kevin E. Weddington  
Primary Examiner  
Art Unit 1614

K. WEDDINGTON

AUGUST 30, 2002